

WHAT IS CLAIMED IS:

*Am C3*

1. An information outputting apparatus comprising:  
an extracting means for extracting a program clock  
reference and a transport packet from an input stream;

a clock generating means for generating a clock  
signal synchronized with said program clock reference  
extracted by said extracting means;

a time-stamp generating means for generating a time  
stamp in synchronization with said clock signal generated  
by said clock generating means; and

an information generating means for generating  
information representing continuity of time stamps.

2. An information outputting apparatus according  
to claim 1, wherein an adding means for adding a time  
stamp generated by said time-stamp generating means and  
information generated by said information generating  
means to a transport packet extracted by said extracting  
means.

3. An information outputting apparatus according  
to claim 1, wherein a file recording means for recording  
a time stamp generated by said time-stamp generating  
means and information generated by said information  
generating means into a playback management file.

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4. An information outputting method comprising the  
steps of:

an extracting step for extracting a program clock reference and a transport packet from an input stream;

a clock generating step for generating a clock signal synchronized with said program clock reference extracted at said extracting step;

a time-stamp generating step for generating a time stamp in synchronization with said clock signal generated at said clock generating step; and

an information generating step for generating information representing continuity of time stamps.

5. A presentation medium used for presenting a program executable by a computer to drive an information outputting apparatus to carry out the steps of:

an extracting step for extracting a program clock reference and a transport packet from an input stream;

a clock generating step for generating a clock signal synchronized with said program clock reference extracted at said extracting step;

a time-stamp generating step for generating a time stamp in synchronization with said clock signal generated at said clock generating step; and

an information generating step for generating information representing continuity of time stamps.

6. An information outputting apparatus comprising:

a selecting means for selecting one of a plurality

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generated by said generating means with a time stamp separated by said separating means;

an output control means for controlling an operation to output a transport packet separated by said separating means in accordance with a result of comparison output by said comparing means; and

a timing control means for controlling a timing signal generated by said generating means on the basis of information representing continuity of time stamps and a time stamp.

10. An information outputting apparatus according to claim 9, wherein said separating means separates said information representing continuity of time stamps from an input stream.

11. An information outputting apparatus according to claim 9, wherein said separating means separates said information representing continuity of time stamps from a playback management file.

12. An information outputting method comprising the steps of:

a separating step of separating information representing continuity of time stamps, a time stamp and a transport packet;

a generating step for generating a timing signal;

a comparing step for comparing a timing signal



